

TITLE

ELECTROLUMINESCENT COPOLYMERS WITH MULTI-FUNCTIONAL MONOMERS AND METHODS FOR USE THEREOF

ABSTRACT OF THE INVENTION

5        Polymeric compositions are provided comprising a first plurality of first monomeric units comprising an aromatic group with at least one substituent selected from alkyl, heteroalkyl, alkenyl, heteroalkenyl, alkynyl, heteroalkynyl, aryl, arylalkyl, heteroaryl, heteroarylalkyl, and amino, and a second plurality of second multi-functional monomeric units, wherein each  
10      multi-functional monomeric unit is capable of forming a branching point in the polymeric composition, thereby resulting in a branched material. Invention compositions therefore have an altered morphology relative to similar non-branched materials. When used to form an EL layer within an EL device, this altered morphology results in EL layers with improved  
15      efficiency, which in turn results in more efficient EL devices.

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